

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,861,247 B1
DATED : March 1, 2005
INVENTOR(S) : Miller

Page 1 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page.

Item [21], Application No., insert -- Appl. Filed **May 14, 1998** --.

Item [56], **References Cited**, OTHER PUBLICATIONS,

"Harris et al. J. of" reference, delete "he", insert -- the --.

"Ank" should read -- Ahn --.

"Collazo et al." reference, delete "identication" and insert -- identification --.

Delete the following references, they are duplicates, "Hermant", "Kaniga" and "Pegues."

Column 1.

Line 7, delete "tqi".

Column 2.

Line 46, insert a space after "amino".

Line 56, delete "An", insert -- an --.

Line 56, delete the space between "Ssp" and "B".

Column 3.

Line 59, delete "sap", insert -- Ssp --.

Line 65, delete "an", insert -- a --.

Column 4.

Line 15, delete "feature", insert -- features --.

Line 16, delete "gene", insert -- genes --.

Line 29, delete "cholorao", insert -- cholerae --.

Line 37, delete "psratyphi", (first occurrence), insert -- paratyphi --.

Line 47, delete "or", insert -- of --.

Column 5.

Line 9, delete "apropriate", insert -- appropriate --.

Line 63, insert -- 35 -- before "amino".

Column 6.

Line 3, delete "university", insert -- University --.

Line 4, delete "biotechnology center", insert -- Biotechnology Center --.

Line 4, delete "university avenue", insert -- University Avenue --.

Line 7, delete "substitutions".

Line 56, delete "the" (first occurrence).

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Column 6 (cont'd).

Line 63, delete "and".

Column 7.

Line 19, delete "Represents", insert -- represents --.

Line 47, delete "140289", insert -- 140285 --.

Column 8.

Line 1, delete "Δhil", insert -- Δhil --.

Line 22, delete "lacSY11-5", insert -- lacZY11-5 --.

Line 48, delete "A" before "indicates", insert -- Δ --.

Column 9.

Line 28, delete "(5spCD)", insert -- (sspCD) --.

Line 29, delete "(SspD)", insert -- (sspD) --.

Line 42, delete "lxi", before "spa", insert -- mxi --.

Line 65, delete "prgH", insert -- sspH --.

Column 10.

Line 46, insert -- as -- after "used".

Line 57, insert -- of -- after "presence".

Column 11.

Line 57, delete "A", insert -- an --.

Line 62, delete "ii" after "protein", insert -- is --.

Column 12.

Line 38, delete "by" after "then", insert -- be --.

Column 13.

Line 16, delete "(stpA)", insert -- (StpA) --.

Line 29, insert -- to -- after "useful".

Line 58, insert -- : -- after "Genes".

Column 14.

Line 20, insert -- , -- after "Strains".

Line 34, delete "DATP", insert -- dATP --.

Line 61, delete "a" before "841-bp", insert -- an --.

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Column 14 (cont'd),

Line 66, delete "(51", insert -- (5' --.

Column 15,

Line 1, delete "31)", insert -- 3') --.

Line 8, delete "51", insert -- (5' --.

Line 20, delete "N", after "8", insert -- M --.

Line 42, insert a space between "system" and "or".

Column 16,

Line 38, delete "Eschericnia", insert -- Escherichia --.

Line 47, delete "140288", insert -- 14028s --.

Line 57, delete "pWXSH5", insert -- pWKSH5 --.

Column 17,

Line 43, delete "a" before "2600".

Line 67, delete "31)", insert -- 3') --.

Column 19,

Line 23, delete "PACE", insert -- PAGE --.

Column 20,

Line 28, delete the space between "orfl" and the period.

Line 44, delete "TnpboA", insert -- TnpboA --.

Column 22,

Line 27, delete "SspD", insert -- sspD --.

Line 30, delete "Ipac", insert -- IpaC --.

Column 23,

Line 61, delete "2x108", insert -- 2x10⁸ --.

Column 24,

Line 62, delete "sup", insert -- ssp --.

Column 25,

Line 16, delete "BE638", insert -- EE638 --.

Line 19, delete "ssp87", insert -- Ssp87 --.

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Column 25 (cont'd).

Line 22, delete "EZ633", insert -- EE633 --.
Line 26, delete "ten" after "deletion".
Line 31, delete "EZ638", insert -- EE638 --.
Line 41, delete "ZE633", insert -- EE633 --.
Line 48, delete "EB633", insert -- EE633 --.
Line 48, delete "a" before "11", insert -- an --.
Lines 55, 58 and 65, delete "SspD", insert -- sspD --.
Line 57, delete "supC", insert -- sspC --.
Line 65, delete "sapA", insert -- sspA --.
Line 67, delete "sapD", insert -- sspD --.

Column 26.

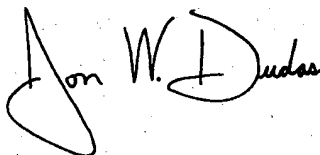
Line 6, delete "sapD", insert -- sspD --.
Lines 8, 27, 30, 38 and 47, delete "SspD", insert -- sspD --.
Line 19, delete "get".
Line 26, delete "sap", insert -- Ssp --.
Line 27, delete "SspD", insert -- sspD --.
Line 31, delete "Eithelial", insert -- Epithelial --.
Line 45, delete "sup", insert -- ssp --.

Column 27.

Line 5, delete "(prgHI::", insert -- (prqH:: --.
Line 26, delete "lane", insert -- lanes --.
Line 43, delete "ZE638", insert -- EE638 --.

Signed and Sealed this

Eleventh Day of April, 2006

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is written in a cursive style with a large, stylized initial "J".

JON W. DUDAS
Director of the United States Patent and Trademark Office